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# Fax

**To:** USPTO **From:** Michelle Craig, Reg. No. 52,776  
**Fax:** 571.273.8300 **Pages:** 29, Including This Cover Page  
**Phone:** **Date:** JAN 22 2006  
**Our Ref:** 012.P59014 **CC:**

☐ Urgent ☐ For Review ☐ Please Comment ☐ Please Reply ☐ Please Recycle

Please find attached for filing in connection with application no. 10/613,856, entitled ADAPTIVE PREDISTORTION FOR A TRANSMIT SYSTEM WITH GAIN, PHASE AND DELAY ADJUSTMENTS, the following documents:

- REV/POA
- Statement Under 37 CFR 3.73(b)
- Copy of Assignment of Patent Rights executed 10/31/2005 (10 Pages)
- Copy of Assignment of Patent Rights executed 12/23/2005 (16 pages)

**CERTIFICATE OF FACSIMILE TRANSMISSION**

*I hereby certify that this correspondence is being transmitted by facsimile to the  
U.S. Patent and Trademark Office on:*

**JAN 22 2006**

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**Julianne Flynn**

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PTO/SB/80 (04-05)

Approved for use through 11/30/2005, OMB 0351-0035

U.S. Patent and Trademark Office, U.S. DEPARTMENT OF COMMERCE

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**POWER OF ATTORNEY TO PROSECUTE APPLICATIONS BEFORE THE USPTO**

I hereby revoke all previous powers of attorney given in the application identified in the attached statement under 37 CFR 3.73(b).

I hereby appoint:

☒ Practitioner(s) associated with the Customer Number:

**00043831**

OR

☐ Practitioner(s) named below (If more than ten patent practitioners are to be named, then a customer number must be used):

Name	Registration Number	Name	Registration Number

as attorney(s) or agent(s) to represent the undersigned before the United States Patent and Trademark Office (USPTO) in connection with any and all patent applications assigned only to the undersigned according to the USPTO assignment records or assignment documents attached to this form in accordance with 37 CFR 3.78(b).

Please change the correspondence address for the application identified in the attached statement under 37 CFR 3.73(b) to:

☒ The address associated with Customer Number:

**00043831**

OR

<input type="checkbox"/> Firm or Individual Name			
Address			
City	State	Zip	
Country			
Telephone	Email		

Assignee Name and Address:

**Zarbaia Digital Fund LLC**

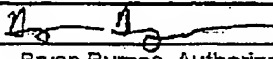
**2711 Centerville Road, Suite 400**

**Wilmington, DE 19808**

A copy of this form, together with a statement under 37 CFR 3.73(b) (Form PTO/SB/98 or equivalent) is required to be filed in each application in which this form is used. The statement under 37 CFR 3.73(b) may be completed by one of the practitioners appointed in this form if the appointed practitioner is authorized to act on behalf of the assignee, and must identify the application in which this Power of Attorney is to be filed.

**SIGNATURE of Assignee of Record**

The individual whose signature and title is supplied below is authorized to act on behalf of the assignee

Signature		Date	1/13/06
Name	Bryan Burpee, Authorized Person for Zarbaia Digital Fund LLC		Telephone
Title			

This collection of information is required by 37 CFR 1.31, 1.32 and 1.33. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.11 and 1.14. This collection is estimated to take 3 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEE OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

If you need assistance in completing the form, call 1-800-PTO-9199 and select option 2.

JAN 23 2006

PTO/SB/95 (08-03)

Approved for use through 07/31/2006. OMB 0851-0031  
U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.

**STATEMENT UNDER 37 CFR 3.73(b)**Applicant/Patent Owner: Zarbaña Digital Fund LLCApplication No./Patent No.: 10/613,856 6,975,167 Filed/Issue Date: 7/3/2003 12/13/2005Entitled: ADAPTIVE PREDISTORTION FOR A TRANSMIT SYSTEM WITH GAIN, PHASE AND DELAY ADJUSTMENTSZarbaña Digital Fund LLC

(Name of Assignee)

a Limited Liability Company

(Type of Assignee, e.g., corporation, partnership, university, government agency, etc.)

states that it is:

1. ☒ the assignee of the entire right, title, and interest; or2. ☐ an assignee of less than the entire right, title and interest.  
The extent (by percentage) of its ownership interest is \_\_\_\_\_ %  
in the patent application/patent identified above by virtue of either:A. ☐ An assignment from the inventor(s) of the patent application/patent identified above. The assignment was recorded in the United States Patent and Trademark Office at Reel \_\_\_\_\_, Frame \_\_\_\_\_, or for which a copy thereof is attached.

OR

B. ☒ A chain of title from the inventor(s), of the patent application/patent identified above, to the current assignee as shown below:

1. From: Aryan Saed To: Icefyre Semiconductor Corporation  
The document was recorded in the United States Patent and Trademark Office at  
Reel 014254, Frame 0665, or for which a copy thereof is attached.
2. From: Icefyre Semiconductor Corporation To: Icefyre Semiconductor, Inc.  
The document was recorded in the United States Patent and Trademark Office at  
Reel \_\_\_\_\_, Frame \_\_\_\_\_, or for which a copy thereof is attached.
3. From: Icefyre Semiconductor, Inc. To: Zarbaña Digital Fund LLC  
The document was recorded in the United States Patent and Trademark Office at  
Reel \_\_\_\_\_, Frame \_\_\_\_\_, or for which a copy thereof is attached.

☐ Additional documents in the chain of title are listed on a supplemental sheet.☒ Copies of assignments or other documents in the chain of title are attached.

[NOTE: A separate copy (i.e., the original assignment document or a true copy of the original document) must be submitted to Assignment Division in accordance with 37 CFR Part 3, if the assignment is to be recorded in the records of the USPTO. See MPEP 302.08]

The undersigned (whose title is supplied below) is authorized to act on behalf of the assignee.

1/23/06  
Date\_\_\_\_\_  
Telephone numberMichelle Craig, Reg. No. 52,776

Typed or printed name

Michelle Craig  
Signature\_\_\_\_\_  
Attorney at Law\_\_\_\_\_  
Title

This collection of information is required by 37 CFR 3.73(b). The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 12 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

If you need assistance in completing the form, call 1-800-PTO-9199 and select option 2.

**PATENT ASSIGNMENT**

IceFyre Semiconductor Corporation, c/o Fraser Milner Casgrain LLP, 99 Bank Street, Suite 1420, Ottawa, Ontario, K1P 1H4

(hereinafter "Assignor")

IceFyre Semiconductor, Inc., c/o Fraser Milner Casgrain LLP, 99 Bank Street, Suite 1420, Ottawa, Ontario, K1P 1H4

(hereinafter "Assignee")

WHEREAS the Assignor and Assignee executed the Intellectual Property Transfer Agreement dated October 2, 2005, which provides for the purchase by Assignee of certain patent rights of Assignor; and

WHEREAS the Assignor, in consideration of CAD one dollar (\$1.00) and other good and valuable consideration, the receipt of which is hereby acknowledged, do hereby sell, assign and transfer to the Assignee and its successors and assigns:

- (i) Assignor's entire right, title and interest in Canada, the United States and throughout the world in and out to the patents and patent applications listed in Schedule A attached hereto, including any and all inventions described therein, and in any and all continuations-in-part, continuations, divisions, substitutes, re-issues, re-examinations, or extensions thereof, and all other applications for patent relating thereto which have been filed, or hereafter shall be filed, in Canada, the United States or in any other jurisdiction and further including all rights under treaties to file and prosecute patent applications corresponding to the preceding patents and patent applications (the "Patents");
- (ii) all of Assignor's corresponding right, title and interest in and to any patents which may issue therefore, the same to be held and enjoyed by Assignee to the full end of the term for which the said patent is granted and maintained, as fully and entirely as the same could have been held and enjoyed by Assignor, and;
- (iii) the right to take action and recover in respect of any infringement of the Patents that took place prior to the date of this Assignment.

The Assignor hereby authorizes the issuance of any and all registrations for the Patents to the Assignee, its successors, assigns or legal representatives.

The Assignor hereby irrevocably designates and appoints the Assignee and its duly authorized officers and agents as the Assignor's agent and attorney in fact, to act for and on the Assignor's behalf and stead, to do all such lawful acts and things and to execute such further lawful assignments, documents, assurances, applications and other instruments as reasonably may be required by the Assignee, its successors, assigns or legal representatives, to obtain any and all

registrations for the Patents and to vest the same in the Assignee, its successors, assigns or legal representatives.

The Assignor hereby agrees to execute and sign all documents required to effect a recordation of the assignment of the Patents and registrations thereof before the proper office or agency.

The remainder of this page is intentionally left blank.

EXECUTED at: Toronto this 31 day of October, 2005  
IceFyre Semiconductor Corporation  
Name: Jim Laird  
Title: Director

STATEMENT OF WITNESS

I, Scott Clark, whose full post office address is \_\_\_\_\_, was  
personally present and did see Jim Laird, who is known to me,  
execute the above assignment.

Name: \_\_\_\_\_

Date: Oct 31st, 2005

COUNTERPART SIGNATURE PAGE TO  
PATENT ASSIGNMENT

403504\_1.DOC

IceFyre Semiconductor Corp. Patent Related Information  
As of September 22, 2005

Item	Title	Status	Number	Published / Unpublished	Fees Current and Paid	Foreign Patents	Comments
ICE-001	SWITCHED-MODE POWER AMPLIFIER INTEGRALLY PERFORMING POWER COMBINING	Issued	6603352	Published	Yes	Yes. See Below.	Issued
ICE-001PC	PCT Application	Nationalized					
ICE-001JP	Japanese Nationalization	Pending	2003-550250	Published	Yes		Request for Examination due December 3, 2005.
ICE-001KR	Korean Nationalization	Pending	7008505/2004	TBD	Yes		
ICE-001CN	Chinese Nationalization	Pending	2824126.6	TBD	Yes		
ICE-001CP	SWITCHED-MODE POWER AMPLIFIER INTEGRALLY PERFORMING POWER COMBINING (CIP)	Issued	6,937,096	Published	Yes		Issued
ICE-002	SELECTABLE INVERSION/VARIABLE GAIN COMBINER FOR DIVERSITY RECEPTION IN RF TRANSCEIVERS	Abandoned	10/068,120	Published	No	Yes. See Below.	Abandoned
ICE-002PC	PCT Application	Nationalized					
ICE-002CA	Canadian Nationalization	Abandoned	2455111	Published	Yes		Abandoned
ICE-002CN	Chinese Nationalization	Pending	2818192.1	Published	Yes		Abandoned, but still revivable through 1/06.
ICE-002EP	European Nationalization	Pending	2748525.9	Published	Yes		
ICE-002JP	Japanese Nationalization	Pending	2003-518082	Published	Yes		
ICE-002KR	Korean Nationalization	Pending	7001206/2004	TBD	Yes		Abandoned, but still revivable through 1/06.
ICE-002NO	Norwegian Nationalization	Pending	20040269	TBD	Yes		

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IceFyre Semiconductor Corp. Patent Related Information  
As of September 22, 2005

Item	Title	Status	Number	Published / Unpublished	Fees Current and Paid	Foreign Patents	Comments
ICE-003	PSUEDO-NOISE CARRIER SUPPRESSION/IMAGE REJECTION UP AND DOWN CONVERTERS	Pending	10/094,826	Allowed	Yes		Allowed. Issue Fee due about 1/20/03.
ICE-003PC	PCT Application	Pending	PCT/CA02/01498	Published	Yes		Abandoned
ICE-004	UP/DOWN CONVERSION CIRCUITRY FOR RADIO TRANSCEIVER	Pending	10/154,282	Published	Yes	PCT Application Pending.	
ICE-004PC	PCT Application	Pending	PCT/CA02/01497	Published	Yes		
ICE-005	Oscillator Frequency Offsets	Abandoned	10/155,107	Published	No	PCT Application Pending.	Abandoned
ICE-005PC	PCT Application	Pending	PCT/CA02/01499	Published	Yes		
ICE-006	PHASOR FRAGMENTATION CIRCUITRY AND METHOD FOR PROCESSING MODULATED SIGNALS HAVING NON-	Pending	10/273,908	Published	Yes	Yes. See Below.	
ICE-006PC	PCT Application	Nationalized					
ICE-006JP	Japanese Nationalization	Pending	TBD	Not Published	Yes		
ICE-007	SYSTEMS AND MODULES FOR USE WITH TRELLIS-BASED DECODING	Pending	10/377,859	Published	Yes		
ICE-007PC	PCT Application	Abandoned	PCT/CA2004/0002 82	Published	Yes		Abandoned
ICE-008	PARALLEL CONVOLUTIONAL ENCODER	Pending	10/629,644	Published	Yes	Yes. See Below.	
ICE-008PC	PCT Application	Nationalized					
ICE-008KR	Korean Nationalization	Pending	7001719/2005	Not Published	Yes		
ICE-008CN	Chinese Nationalization	Pending	TBD	Not Published	Yes		

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IceFyre Semiconductor Corp. Patent Related Information  
As of September 22, 2005

Item	Title	Status	Number	Published / Unpublished	Fees Current and Paid	Foreign Patents	Comments
ICE-008JP	Japanese Nationalization	Pending	2004-525088	Not Published	Yes		
ICE-009	PARALLEL SCRAMBLER/DESCRAMBLER	Pending	10/629,640	Published	Yes	Yes. See Below.	
ICE-009PC	PCT Application	Pending	PCT/CA03/01132	Published	Yes		
ICE-010	COMPUTATIONAL CIRCUITS AND METHODS FOR PROCESSING MODULATED SIGNALS HAVING NON-CONSTANT ENVELOPES	Abandoned	09/918,106	Published	No	Yes. See Below.	Abandoned
	PCT Application	Nationalized					
ICE-010PC	PCT Application	Nationalized					
ICE-010CA	Canadian Nationalization	Pending	2,455,277	TBD	Yes		Abandoned
ICE-010CN	Chinese Nationalization	Pending	2818664.8	Published	Yes		
ICE-011PC	PCT Application	Nationalized					
ICE-010EP	European Nationalization	Pending	2748528.3	Published	Yes		Response to Examination Report Due December 15, 2005.
ICE-010JP	Japanese Nationalization	Pending	2003-518144	Published	Yes		
ICE-010KR	Korean Nationalization	Pending	7001445/2004	TBD	Yes		
ICE-010NO	Norwegian Nationalization	Pending	20040367	TBD	Yes		Abandoned, but still revivable through 1/06.
ICE-010CP	COMPUTATIONAL CIRCUITS AND METHODS FOR PROCESSING MODULATED SIGNALS HAVING NON-CONSTANT ENVELOPES (CIP)	Pending	10/205,743	Published	Yes		

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IceFyre Semiconductor Corp. Patent Related Information  
As of September 22, 2005

Item	Title	Status	Number	Published / Unpublished	Fees Current and Paid	Foreign Patents	Comments
ICE-011	CHIREIX ARCHITECTURE USING LOW IMPEDANCE AMPLIFIERS	Issued	6,836,183	Issued	Yes	Yes. See Below.	Issued
ICE-011JP	Japanese Nationalization	Pending	TBD	TBD	Yes		
ICE-011EP	European Nationalization	Pending	TBD	Published	Yes		Response to Examination Report Due December 17, 2005.
ICE-012	MEMORY SYSTEMS AND METHOD FOR USE IN TRELLIS-BASED DECODING	Pending	10/377,860	Published	Yes		
ICE-013	PREDISTORTION CIRCUIT FOR A TRANSMIT SYSTEM	Pending	10/613,355	Published	Yes		
ICE-013CP	PREDISTORTION CIRCUIT FOR A TRANSMIT SYSTEM (CIP)	Pending	10/641,370	Published	Yes		
ICE-014	A METHOD OF AND DEVICE FOR ANTENNAE DIVERSITY SWITCHING	Pending	10/610,454	Published	Yes	PCT Application Pending.	
ICE-014PC	PCT Application	Pending	PCT/CA2004/0009 49	Published	Yes		Nationalization Due: 12/30/05.
ICE-015	ADAPTIVE PREDISTORTION FOR A TRANSMIT SYSTEM	Allowed	10/613,372	Issue Fee Paid	Yes		Allowed and ready for Issuance. Issue Fee Paid
ICE-015CP	ADAPTIVE PREDISTORTION FOR A TRANSMIT SYSTEM (CIP)	Allowable	10/641,372	Allowed	Yes		Allowed. Issue Fee Due 12/23/05.

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IceFyre Semiconductor Corp. Patent Related Information  
As of September 22, 2005

Item	Title	Status	Number	Published / Unpublished	Fees Current and Paid	Foreign Patents	Comments
ICE-016	SWITCHED-MODE POWER AMPLIFIER USING LUMPED ELEMENT IMPEDANCE INVERTER FOR PARALLEL COMBINING	Issued	6,879,209	Published	Yes		Issued
ICE-016C1	SWITCHED-MODE POWER AMPLIFIER USING LUMPED ELEMENT IMPEDANCE INVERTER FOR PARALLEL COMBINING (CIP)	Pending	11/099,916	Published	Yes		Final (6 Month) date to respond to office action: December 17, 2005.
ICE-017	INTEGRATED CIRCUIT INCORPORATING WIRE BOND INDUCTANCE	Pending	10/610,497	Published	Yes		Notice of Appeal with Appeal Brief Due 12/30/05.
ICE-018	DIGITAL BRANCH CALIBRATOR FOR AN RF TRANSMITTER	Pending	10/627,881	Published	Yes		
ICE-019	ADAPTIVE PREDISTORTION FOR A TRANSMIT SYSTEM WITH GAIN, PHASE AND DELAY ADJUSTMENTS	Allowed	10/613,856	Issue Fee Paid	Yes	PCT Application Pending.	Allowed and ready for issuance. Issue fee paid. Checking status.
ICE-019PC	PCT Application	Pending	CA/2004/000972	Published	Yes		
ICE-019CP1	ADAPTIVE PREDISTORTION FOR A TRANSMIT SYSTEM WITH GAIN, PHASE AND DELAY ADJUSTMENTS (CIP)	Allowable	10/641,371	Allowed	Yes		Allowed. Issue fee due November 22, 2005.

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IceFyre Semiconductor Corp. Patent Related Information  
As of September 22, 2005

Item	Title	Status	Number	Published / Unpublished	Fees Current and Paid	Foreign Patents	Comments
ICE-019CP2	ADAPTIVE PREDISTORTION FOR A TRANSMIT SYSTEM WITH GAIN, PHASE AND DELAY ADJUSTMENTS (CIP)	Allowable	10/641,374	Allowed	Yes		Allowed. Issue fee due December 6, 2005.
ICE-019CP3	ADAPTIVE PREDISTORTION FOR A TRANSMIT SYSTEM WITH GAIN, PHASE AND DELAY ADJUSTMENTS (CIP)	Allowable	10/641,373	Allowed	Yes		Allowed. Issue fee due November 24, 2005.
ICE-020	STAGGERED AGC WITH DIGITALLY CONTROLLED VGA	Pending	10/661,945	Published	Yes	PCT Application Filed.	
ICE-020PC	PCT Application	Pending	CA2004/001566	Published	Yes		
ICE-021	OPTIMIZED FFT/IFFT MODULE	Pending	10/662,063	Published	Yes		
ICE-022	METHOD FOR AMPLITUDE INSENSITIVE PACKET DETECTION	Pending	10/661,943	Published	Yes	PCT Application Filed.	
ICE-022PC	PCT Application	Pending	CA2004/001565	Published	Yes		
ICE-023	FREQUENCY DOMAIN EQUALIZER FOR WIRELESS COMMUNICATIONS SYSTEM	Pending	10/661,147	Published	Yes	PCT Application Filed.	
ICE-023PC	PCT Application	Pending	CA2004/001564	Published	Yes		
ICE-029	METHODS AND SYSTEMS FOR SIGNAL AMPLIFICATION THROUGH ENVELOPE REMOVAL AND RESTORATION	Pending	10/779,322	Not Published	Yes	PCT Application Filed.	
ICE-029PC	PCT Application	Pending	CA2005/000153	Not Published	Yes		

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IceFyre Semiconductor Corp. Patent Related Information  
As of September 22, 2005

Item	Title	Status	Number	Published / Unpublished	Fees Current and Paid	Foreign Patents	Comments
ICE-030	SYSTEMS AND METHODS FOR RAPID SIGNAL DETECTION AND IDENTIFICATION	Pending	10/883,170	Not Published	Yes		
ICE-031	Multiple Input, Multiple Output Communications Systems	Pending	10/884,633	Not Published	Yes		
ICE-031C1	Multiple Input, Multiple Output Communications Systems (Continuation)	Pending	10/954,429	Not Published	Yes		
ICE-032	Power Amplifier	Pending	10/884,627	Not Published	Yes		
ICE-033PR	Improved Power Amplifier and Related Methods.	Pending	60/625,301	Not Published	Yes		Provisional application. Conversion due November 5, 2005.

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